

ABSTRACT OF THE DISCLOSURE

An apparatus and method for holding two cameras on a single mount for stereo graphic imaging with controls for: (a) the synchronous convergence of the optical line of focus of both cameras at a single point at a desired distance; (b) the adjustment of the position of the image focal plane in one camera with respect to the image focal plane in the other camera such that the two cameras are correctly focused on the same image; (c) the adjustment of the spacing between the two cameras such as to mimic the average distance between human eyes; and (d) adjustment of the two cameras such that the two cameras, while being converged, rotate around the same image (nodal) point.

The primary benefits of the present invention are a compact mechanical configuration, simple and precise control of the optical convergence of two cameras, simple and precise alignment of the image plane in one camera with respect to the image plane in the second camera, simple adjustment of the distance between the cameras to mimic the distance between human eyes, and simple adjustment of the image (nodal) point around which the cameras are rotated for convergence.